Assignment 1-3   Palindromes

A palindrome is a number that reads the same backward as forward. For example, each of the following five-digit positive integers is a palindrome: 12321, 55555, 45554 and 11611. You are given a five-digit positive integer. In this problem you'll have to find out whether the given integer is a palindrome.

Input
The input consists of exactly one line with a five-digit positive integer n.

Output
You are to output a single line containing the word "palindrome" or "non-palindrome" depending on whether the integer n is a palindrome.

Sample Input 1
12345

Sample Output 1
non-palindrome

Sample Input 2
12321

Sample Output 2
palindrome